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MAIL STOP: PCT
Attorney Docket No.: 27489U

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ISHAAYA et al.

Application No.: 10/583,125

Art Unit: UNKNOWN

Filing Date: June 16, 2006

Examiner: UNKNOWN

Intl. Application. No.: PCT/IL2004/001141

Intl. Filing Date: 16 December 2004 (16.12.2004)

Title: **RESONATOR CAVITY CONFIGURATION AND METHOD**

TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

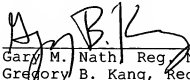
- 1) Information Disclosure Statement;
- 2) PTO Form-1449 with 80 references cited;
- 3) Copy of 14 of the 80 cited references.

The Commissioner is hereby authorized to charge any deficiency or credit any excess to Deposit Account Number 14-0112.

Respectfully submitted,
NATH & ASSOCIATES PLLC

September 28, 2006

By:


Gary M. Nath, Reg. No. 26,965
Gregory B. Kang, Reg. No. 45,273
Jerald L. Meyer, Reg. No. 41,194
Customer No. 20529



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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

An Information Disclosure Statement is submitted herewith pursuant to 37 C.F.R. 1.97-1.98. Please note the following particulars: [NOTE: One only of items a, b, c, and d must be checked.]

- a. ☒ The enclosed statement is being filed within three months of the filing date of a national application, or within three months of the date of entry into the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing date of a first Office Action on the merits, whichever event occurs last.
- b. ☐ The enclosed statement is being filed after a first action on the merits but before the mailing date of a final action under 37 C.F.R. 1.113, or a notice of allowance under 37 C.F.R. 1.311.
The enclosed statement is accompanied by [check one]:
☐ i. a certification in part (e) below as specified in 37 C.F.R. 1.97(e), or
☐ ii. a check in the amount required by 37 C.F.R. 1.17(p).
- c. ☐ The enclosed statement is being filed after the mailing date of a final action under 37 C.F.R. 1.113,

or a notice of allowance under 37 C.F.R. 1.311, but before payment of the issue fee.

☐ Certification report(e) below; and

☐ a check in the amount as required by 1.17(p).

d. ☐ The enclosed statement is being filed pursuant to 37 C.F.R. 1.97(i), for placement in the file.

e. Certification [Check one] [Certification is required only if box (b)(i) or box (c) is checked.]

☐ I hereby certify that each item of information contained in the enclosed Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement,

or

☐ I hereby certify that no item of information in the enclosed Information Disclosure Statement herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

or

☐ Appropriate certification is attached.

f. [XXX] If no check is enclosed and a fee is due in connection with this communication or if the check enclosed is insufficient, the Commissioner is authorized to charge any fee or additional fee due in connection with this communication to Deposit Account No. 14-0112.

g. [XXX] Copies of the documents are attached herewith with a completed Form PTO-1449.

or

[] Copies of the documents are not attached as allowed under CFR 1.98(d)(1)(2). The earlier application is identified as:
and / or

[XXX] Copies of US Patents/Publications not attached, with a completed Form PTO-1449, as allowed in Official Gazette Aug. 5, 2003/ Vol. 1273, no. 1.

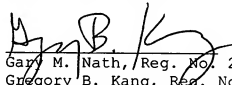
The Examiner is respectfully requested to cite the documents listed on the attached Form PTO-1449 in the next Office Action. In so doing, the Examiner is respectfully requested to initial in the space adjacent to the listing of each document on the Form PTO-1449, and return a copy of the initialed Form PTO-1449 with the next communication to Applicants, to confirm that these documents have been considered by the Examiner and made of record in this application.

If the Examiner has any questions or wishes to discuss this application, kindly telephone the undersigned at the below-listed number.

Respectfully submitted,
NATH & ASSOCIATES PLLC

September 28, 2006

By:


Gary M. Nath, Reg. No. 26,695
Gregory B. Kang, Reg. No. 45,273
Jerald L. Meyer, Reg. No. 41,194
Customer No. 20529

et



PTO FORM-1449
INFORMATION DISCLOSURE
CITATION

In re Application of:
ISHAAYA et al.

Application No:
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Examiner: Unknown

Art Unit: Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue / Publication Date	Inventor	Filed
/AFV/	A1 3,414,840	03 Dec 1968	Domenico, Jr. et al.	28 Sep 1965
	A2 5,675,691	07 Oct 1997	Edlinger et al.	11 Dec 1995
	A3 2003/0063633	03 Apr 2003	Zhang et al.	28 Sep 2001
	A4 6,959,027	25 Oct 2005	Guilfoyle et al.	22 Oct 2002
	A5 5,033,060	16 Jul 1991	Leger et al.	22 May 1990
	A6 6,031,243	29 Feb 2000	Taylor	14 Oct 1997
	A7 6,853,660	08 Feb 2005	Spoonhower et al.	16 Oct 2002
	A8 6,717,719	06 Apr 2004	Moore	01 Oct 2001
	A9 6,144,677	07 Nov 2000	Komine et al.	11 Aug 1998
	A10 6,310,715	30 Oct 2001	Moore	26 Apr 2000
	A11 6,714,581	30 Mar 2004	Corcoran	01 Oct 2001
	A12 6,107,843	22 Aug 2000	de Gouy et al.	30 Apr 1998
	A13 5,373,526	13 Dec 1994	Lam et al.	12 May 1992
	A14 4,761,059	02 Aug 1988	Yeh et al.	28 Jul 1986
	A15 5,121,400	09 Jun 1992	Verdiell et al.	30 Nov 1990
	A16 4,648,092	03 Mar 1987	Ewbank et al.	25 Sep 1985
	A17 4,096,448	20 Jun 1978	Hayes	12 Jan 1977
	A18 4,757,268	12 Jul 1988	Abrams et al.	22 May 1985
	A19 4,833,683	23 May 1989	Ury et al.	08 May 1987
	A20 5,014,061	07 May 1991	Ghose	24 Apr 1989
	A21 4,933,649	12 Jun 1990	Swanson et al.	17 Oct 1986
	A22 4,985,897	15 Jan 1991	Botez et al.	07 Oct 1988
	A23 4,641,311	03 Feb 1987	Ackley	20 Dec 1983
	A24 4,661,962	28 Apr 1987	Clayton	22 Oct 1984
	A25 4,649,351	10 Mar 1987	Veldkamp et al.	19 Oct 1984
	A26 4,719,635	12 Jan 1988	Yeh	10 Feb 1986
	A27 6,826,224	30 Nov 2004	Yuri et al.	27 Mar 2001
	A28 6,687,274	03 Feb 2004	Kahen	04 Feb 2002
	A29 5,689,523	18 Nov 1997	Seguin	12 Jun 1995
	A30 5,058,121	15 Oct 1991	Paoli	13 Jun 1990
	A31 4,904,068	27 Feb 1990	Tatsuno et al.	02 Mar 1988
	A32 4,879,721	07 Nov 1989	Braski et al.	21 Nov 1988
	A33 5,276,758	04 Jan 1994	Hughes	16 Jan 1991
	A34 4,878,724	07 Nov 1989	Thaniyavarn	30 Jul 1987
	A35 5,323,405	21 Jun 1994	Kamiyama et al.	30 Sep 1992
	A36 4,860,298	22 Aug 1989	Botez et al.	12 Apr 1988
	A37 4,796,269	03 Jan 1989	DeFreez et al.	22 May 1987
	A38 4,799,223	17 Jan 1989	Streifer et al.	06 Aug 1987
/AH/	A39 4,831,630	16 May 1989	Scifres et al.	20 Nov 1987

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ISHAAYA et al.Application No:
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June 16, 2006

Examiner: Unknown

Art Unit: Unknown

U.S. PATENT DOCUMENTS (cont.)

EXAMINER DOCUMENTS (cont.)					
Examiner Initial /AR/		Document Number	Issue / Publication Date	Inventor	Filed
	A40	5,050,180	17 Sep 1991	Botez et al.	10 Oct 1989
	A41	4,674,096	16 Jun 1987	Salzman et al.	04 Mar 1985
	A42	4,688,884	25 Aug 1987	Scifres et al.	12 Nov 1985
	A43	4,723,252	02 Feb 1988	Botez et al.	24 Feb 1986
	A44	5,410,625	25 Apr 1995	Jenkins et al.	02 Dec 1991
	A45	4,624,000	18 Nov 1986	Streifer et al.	01 Nov 1984
	A46	4,594,719	10 Jun 1986	Ackley	19 Jan 1984
	A47	5,084,882	28 Jan 1992	Hughes	04 Jul 1989
	A48	4,794,345	27 Dec 1988	Linford et al.	26 Feb 1986
	A49	4,682,339	21 Jul 1987	Sziklas et al.	30 Jul 1986
	A50	4,170,405	09 Oct 1979	Sziklas	04 Nov 1977
	A51	5,050,173	17 Sep 1991	Hughes	03 May 1989
	A52	4,791,650	13 Dec 1988	Tatsuno et al.	24 Oct 1986
	A53	4,547,396	15 Oct 1985	Botez et al.	26 Oct 1984
	A54	4,385,389	24 May 1983	Botez	16 Jun 1981
	A55	5,023,882	11 Jun 1991	Paoli	07 May 1990
	A56	4,982,166	01 Jan 1991	Morrow	01 Mar 1989
	A57	6,882,781	19 Apr 2005	Ionov	23 May 2002
	A58	6,215,807	10 Apr 2001	Reilly	24 Feb 1998
	A59	3,877,813	15 Apr 1975	Hayes et al.	17 Sep 1973
	A60	3,437,955	08 Apr 1969	Enloe et al.	29 Dec 1964
	A61	3,526,852	01 Sep 1970	Kaplan	01 Mar 1968
	A62	3,699,474	17 Oct 1972	Landry	20 Nov 1917
	A63	3,575,670	20 Apr 1971	Hansen	27 Dec 1968
	A64	3,539,940	10 Nov 1970	Miller	08 Nov 1966
	A65	3,496,487	17 Feb 1970	Soffer et al.	05 Jul 1966

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initial		Document Number	Publication Date	Country	Translation
/AR/	A66	0 982 620 A2	01 Mar 2000	EUROPE	n/a
	A67				
	A68				

OTHER

Examiner Initial /AR/	(Including Author, Title, Date, Pertinent Pages, etc.)
A69	M. Jr. DiDomenico, "A single-frequency TEM ₀₀ - mode gas laser with high output power", Appl Phys. Lett. 8, no. 1, 20-22 (1966).
A70	M. Jr. DiDomenico, "Characteristics of a single-frequency Michelson-type He-Ne gas laser", IEEE JQE QE-2, no. 8, 311-322 (1966).

PTO FORM-1449 INFORMATION DISCLOSURE CITATION		In re Application of: ISHAAYA et al.	
		Application No: 10/583,125	Filed: June 16, 2006
		Examiner: Unknown	Art Unit: Unknown
		OTHER (cont.)	
Examiner Initial		(Including Author, Title, Date, Pertinent Pages, etc.)	
/AR/	A71	M. Brunel, A. Le Floch and F. Bretenaker, "Multiaxis laser eigenstates", J. Opt. Soc. Am. B 13, 946-960 (1996).	
	A72	J.R. Leger, G.J. Swanson and W.B. Veldkamp, "Coherent addition using binary phase gratings", Applied Optics 26, 4391-4399 (1987).	
	A73	T.S. Rutherford and R.L. Byer, "Six beam phase-locked slab laser resonator", CLEO/Europe-EQEC, the 15 th international conference on lasers and electrooptics, Munich Germany (2001).	
	A74	S. Menard, M. Vampouille, A. Desfarges-Berthelemot, V. Kermene, B. Colombeau and C. Froehly, "Highly efficient phase locking of four diode pumped Nd:YAG laser beams", Opt. Comm. 160, 344-353 (1999).	
	A75	D. Sabourdy, V. Kermene, A. Desfarges-Berthelemot, M. Vampouille and A. Barthelemy, "Coherent combining of two Nd:YAG lasers in Vernier-Michelson-type cavity", Appl. Phys. B 75 503-507 (2002).	
	A76	V.A. Kozlov, J. Hernandez-Cordero and T.F. Morse, "All-fiber coherent beam combining of fiber lasers", Opt Lett. 24, 1814-1816 (1999).	
	A77	D. Sabourdy, V. Kermene, A. Desfarges-Berthelemot, L. Lefort and A. Barthelemy, C. Mahodaux and D. Pureur, "Power scaling of fiber lasers with all-fiber interferometric cavity", Electronics Letters 38, no. 14, 692-693 (2002).	
	A78	A. Shirakawa, T. Saitou, T. Sekiguchi and K. Ueda, "Coherent addition of fiber lasers by use of a fiber coupler", Optics Express 10, no. 21, 1167-1172 (2002).	
	A79	D. Sabourdy, V. Kermene, A. Desfarges-Berthelemot, L. Lefort and A. Barthelemy, "Efficient coherent combining of widely tunable fiber lasers", Optics Express 11, vol. 2, 87-97 (2003).	
	A80	G. Machavariani, N. Davidson, A. Ishaaya, E. Hasman, and A.A. Friesem, "Efficient formation of high-quality beam from a pure high order Hermite-Gaussian mode", Opt Lett. 27, 1501-1503 (2002).	
	A81	A.A. Ishaaya, G. Machavariani, N. Davidson, E. Hasman, and A.A. Friesem, "Conversion of a high-order mode beam into a nearly Gaussian Beam using a single interferometric element", Opt. Lett. 28, 504-506 (2003).	
/AR/	A82	Oron et al., Progress in Optics, vol. 42, pp. 325-385, 2001.	
	A83		
Examiner		Date Considered	
/Amardo Rodriguez/		02/24/2009	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP ' 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			